

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/717,492	11/21/2003	Thomas Fairfull	11009-0029	7591
22902	7590 09/29/2004		EXAMINER	
CLARK & BRODY 1750 K STREET NW			COCKS, JOSIAH C	
SUITE 600	EI NW		ART UNIT	PAPER NUMBER
WASHINGTO	ON, DC 20006		3749	

DATE MAILED: 09/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

4						
	Application No.	Applicant(s)				
	10/717,492	FAIRFULL, THOMAS				
Office Action Summary	Examiner	Art Unit				
-	Josiah Cocks	3749				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 21 No	<u>ovember 2003</u> .	J				
	action is non-final.					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	63 O.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-5 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or						
Application Papers						
	_					
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on 21 November 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 	s have been received.					
Copies of the certified copies of the prior	ity documents have been receive	d in this National Stage				
application from the International Bureau						
* See the attached detailed Office action for a list of	of the certified copies not receive	d.				
Attachment(s) 1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO_413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2/20/2004.	5) Notice of Informal P 6) Other:	atent Application (PTO-152)				

Art Unit: 3749

DETAILED ACTION

Drawings

1. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because the drawings filed 11/21/2003 are or poor line quality and are difficult to read. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

INFORMATION ON HOW TO EFFECT DRAWING CHANGES

Replacement Drawing Sheets

Drawing changes must be made by presenting replacement figures which incorporate the desired changes and which comply with 37 CFR 1.84. An explanation of the changes made must be presented either in the drawing amendments, or remarks, section of the amendment. Any replacement drawing sheet must be identified in the top margin as "Replacement Sheet" (37 CFR 1.121(d)) and include all of the figures appearing on the immediate prior version of the sheet, even though only one figure may be amended. The figure or figure number of the amended drawing(s) must not be labeled as "amended." If the changes to the drawing figure(s) are not accepted by the examiner, applicant will be notified of any required corrective action in the next Office action. No further drawing submission will be required, unless applicant is notified.

Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin.

Annotated Drawing Sheets

A marked-up copy of any amended drawing figure, including annotations indicating the changes made, may be submitted or required by the examiner. The annotated drawing sheets must be clearly labeled as "Annotated Marked-up Drawings" and accompany the replacement sheets.

Application/Control Number: 10/717,492 Page 3

Art Unit: 3749

Timing of Corrections

Applicant is required to submit acceptable corrected drawings within the time period set in the Office action. See 37 CFR 1.85(a). Failure to take corrective action within the set period will result in ABANDONMENT of the application.

If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings MUST be filed within the THREE MONTH shortened statutory period set for reply in the "Notice of Allowability." Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136 for filing the corrected drawings after the mailing of a Notice of Allowability.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1 and 2 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, at the end of line 4, recites "said device." Is not clear what structure applicant is referring to as applicant has identified both a combustion device and a mixing device. The examiner notes that it appears applicant did not intend to refer to "said device" at all but instead intended to recite --said gas-- and has been considered as such for the purpose of an examination on the merits. Correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

Art Unit: 3749

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 4,368,696 to Reinhardt ("Reinhardt").

Reinhardt discloses in Figures 1-7 the invention as described in applicant's claims 1-5. In particular, Reinhardt shows a method and apparatus for producing improved combustion in a combustion device wherein a hydrogen-oxygen gas produced from a hydrogen-oxygen generator (30), which a part of electrolyzer (14) is introduced into a mixing device (20). A hydrocarbon fuel is also directed to the mixing device for mixing with the hydrogen-oxygen gas and then the mixture is then combusted. This method and apparatus serves to reduced the amount of hydrocarbon fuel needed for combustion resulting in better fuel efficiency and reduced air pollution (see col. 4, lines 10-13).

Conclusion

- 6. This action is made non-final. A THREE month shortened statutory period for reply has been set. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) months from the mailing date of this communication.
- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patents to Moriyoshi et al., Thomas, Rhodes et al., WIPO Patent WO 94/03713, German Patent DE 3913143 and Japanese Patent JP 11-21572 are included to further show the state of the art concerning hydrogen-oxygen gas mixed with a hydrocarbon for combustion.

Application/Control Number: 10/717,492

Art Unit: 3749

8.

Page 5

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Any questions on access to the Private PAIR system

should be directed to the Electronic Business Center (EBC) at (866) 217-9197 (toll-free).

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Examiner Josiah Cocks whose telephone number is

(703) 305-0450. The examiner can normally be reached on weekdays from 7:30 AM to 5:00

PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ira Lazarus, can be reached at (703) 308-1935. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Group receptionist whose telephone number is (703) 308-0861.

icc

September 25, 2004

PRIMARY EXAMINER

ART UNIT 3749